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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,642	04/21/2006	Martin Terence Cole	2007P11313WOUS	2388
24131 7590 08/05/2008 LERNER GREENBERG STEMER LLP			EXAMINER	
P O BOX 2480			STAFIRA, MICHAEL PATRICK	
HOLLYWOOD, FL 33022-2480			ART UNIT	PAPER NUMBER
			2886	
			MAIL DATE	DELIVERY MODE
			08/05/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/576,642	COLE, MARTIN TERENCE					
Office Action Summary	Examiner	Art Unit					
	/Michael P. Stafira/	2886					
The MAILING DATE of this communication app	pears on the cover sheet with the c	correspondence address					
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
	ion filed 6/24/2009						
1) Responsive to communication(s) filed on <u>elect</u>							
	This action is FINAL . 2b) This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
closed in accordance with the practice under z	A parte Quayle, 1930 C.D. 11, 40	00 0.0. 210.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-66</u> is/are pending in the application.							
4a) Of the above claim(s) 17-43,46-52 and 54-66 is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-16,44,45 and 53</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o							
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>21 April 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
	ammor. Noto the attached emoc	776161761761117776762.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 3) ☑ Information Disclosure Statement(s) (PTO/SB/08) 5) ☐ Notice of Informal Patent Application							
Paper No(s)/Mail Date <u>7/31/06</u> ; <u>4/21/06</u> .							

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DETAILED ACTION

Election/Restrictions

1. Claims 17-43, 46-52, 54-66 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected groups, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 6/24/2008.

2.

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-16, 44, 45 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 01/59737 A1.

Claim 1

WO 01/59737 A1 discloses illuminating the sample with a first wavelength of light, obtaining a first response signal indicative of the first illumination, illuminating the sample with a second wavelength of light, obtaining a second response signal indicative of the second

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illumination (Page 6, lines 25-31), and determining the presence of the particles having the size

or range of size(s) by comparing the first and second signals (Page 14, lines 10-11).

Claim 2

WO 01/59737 A1 discloses the first signal response is subtracted from the second signal

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response (Page 14, lines 10-11).

Claim 3

WO 01/59737 A1 discloses a ratio of the first and second signals is obtained (Page 14,

lines 10-11).

Claim 4

WO 01/59737 A1 discloses the second wavelength provides a response signal for particle

sizes both substantially of the size or in the predetermined range and particle sizes substantially

not of the size or outside the predetermined range, and the first wavelength provides a response

signal for particle sizes substantially not of the size or outside the predetermined range (Page 14,

lines 2-9).

Claim 5

WO 01/59737 A1 discloses upon detecting particles of the predetermined size(s),

triggering an alarm signal (Page 14, lines 12-19).

Claim 6

WO 01/59737 A1 discloses the alarm signal is indicative of an alarm condition for a

pyrolysis, smouldering and/or smoke event (Page 14, lines 12-19).

Claim 7

WO 01/59737 A1 discloses the first wavelength is infrared light and the second

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wavelength is blue light (Page 12, lines 7-9).

Claim 8

WO 01/59737 A1 discloses the first wavelength of light is in the range of 650 nm to 1050

nm, and second wavelength of light is in the range of 400 nm to 500 nm (Page 12, lines 7-9).

Claim 9

WO 01/59737 A1 discloses illuminating the sample with at least one further wavelength

of light, in which particles of at least one further size(s) or range of size(s) are relatively

responsive to the further wavelength of light, obtaining at least one further response signal(s)

indicative of the further illumination, and determining the presence of the particles of the further

size(s) or range of sizes by comparing the first, second and/or further signal(s) (Page. 14, lines 2-

14).

Claim 10

WO 01/59737 A1 discloses at least one of the illuminations is polarized (Page 7, lines 3-

5).

Claim 11

WO 01/59737 A1 further discloses at least one of the illuminations is horizontally and/or

vertically polarized (Page 7, lines 3-5).

Claim 12

WO 01/59737 A1 further discloses the first illumination is a relatively longer wavelength

horizontally polarized and the second illumination is a relatively short wavelength vertically

polarized (Page 20, Claim 2).

Claim 13

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WO 01/59737 A1 discloses the first illumination is a red or infrared light horizontally polarized and the second illumination is a blue wavelength light vertically polarized (Page 12, lines 12-14).

Claim 14

WO 01/59737 A1 further discloses the first illumination is a red or infrared light horizontally polarized and the second illumination is a blue light un-polarized (Page 12, lines 12-15).

Claim 15

WO 01/59737 A1 discloses first illumination means for illuminating the sample with a first wavelength of light, the first light being of a wavelength to which particles of a first size(s) are relatively responsive, a first signal means for providing a first signal indicative of the first illumination (Page 6, 25-31), second illumination means for illuminating the sample with a second wavelength of light, the second light being of a wavelength to which particles of a second size(s) are relatively responsive, a second signal means for providing a second signal indicative of the second illumination (Page 6, 25-31), logic means for comparing the first and second signals to determine the presence of the particles in the predetermined range (Page 14, lines 5-19).

Claim 16

WO 01/59737 A1 discloses processor means (Pages 14, lines 12-19) adapted to operate in accordance with a predetermined instruction set, said apparatus, in conjunction with said instruction set, being adapted to perform the method comprising the steps of: illuminating the sample with a first wavelength of light, obtaining a first response signal indicative of the first

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illumination (Page 6, lines 25-31), illuminating the sample with a second wavelength of light, obtaining a second response signal indicative of the second illumination (Page 6, lines 25-31), and determining the presence of the particles having the size or range of size(s) by comparing the first and second signals (Page 14, lines 10-11).

Claim 44

WO 01/59737 A1 discloses a processor means (Page 14, lines 12-19) adapted to operate in accordance with a predetermined instruction set, said apparatus, in conjunction with said instruction set, being adapted to perform the method comprising the steps of: illuminating the sample with a first wavelength of light, obtaining a first response signal indicative of the first illumination (Page 6, lines 25-31), illuminating the sample with a second wavelength of light obtaining a second response signal indicative of the second illumination (Page 6, lines 25-31), and determining the presence of the particles having the size or range of size(s) by comparing the first and second signals (Page 14, lines 10-11).

Claim 45

WO 01/59737 A1 discloses computer readable code within said computer usable medium for determining the presence of particle(s) in a fluid and characterizing said particles (Page 14, lines 12-19).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claim 53 is rejected under 35 U.S.C. 103(a) as being unpatentable over WO 01/59737 A1.

WO 01/59737 A1 discloses the claimed invention except for the apparatus is a point detector. It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine WO 01/59737 A1 with the point detector since it was well known in the art that a point detector limits the amount of background noise therefore increasing the sensitivity of the measured data.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to /Michael P. Stafira/ whose telephone number is 571-272-2430. The examiner can normally be reached on 4/10 Schedule Mon.-Thurs..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tarifur Chowdhury can be reached on 571-272-2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael P. Stafira/ Primary Examiner Art Unit 2886

July 28, 2008